

Abstract (Figure 1)

A first flush water diverter for use with domestic
5 rainwater collection systems. The diverter comprises a
T-piece (13) and a collection chamber (14), with an
outlet (15) connectable to a hose by way of a flow
control valve (24) and hose connector (25). The
collection chamber (14) is variable in length to suit the
10 environment and size of the roof from which the rainwater
flows. The carrying capacity of the collection chamber
(14), and have its length, is determined from the
formula:

$$DF = RA \times PF \times 1000$$

15 where

DF is the rainwater carrying capacity, or diversion
factor, measured in litres,

RA is the associated roof area measured in square metres,

PF is the Pollution Factor for the roof location which is
20 determined on site and varies between 0.0005 for light
pollution locations and 0.002 for heavy pollution
locations,

and wherein said collection chamber includes an outlet
and associated flow control valve to regulate the flow of
25 diverted rainwater from the collection chamber.